

Title (en)

Set retarded cement compositions.

Title (de)

Abbinderverzögernden Zementzusammensetzung.

Title (fr)

Compositions de ciment à prise retardée.

Publication

EP 0632186 A1 19950104 (EN)

Application

EP 93307828 A 19931001

Priority

US 8536293 A 19930702

Abstract (en)

A subterranean zone penetrated by a wellbore is cemented by (a) forming a pumpable cement compsn. (I) comprising hydraulic cement, sufficient water to form a slurry, and a water-soluble additive (II); (b) pumping (I) into the zone via the wellbore; and (c) allowing (I) to set. (II) is a polymer (III) having grafted thereon (i) a first acid monomer, and opt. (ii) a second acid monomer. (III) is the condensation product of (iii) an aliphatic ketone, (iv) an aliphatic aldehyde, and (v) an acid contributing cpd. Molar ratio (iii):(iv):(v) = 1:1-18:0.25-3.0. (i) is acrylic, vinyl phosphonic, methacrylic, maleic or itaconic acid; (ii) is 2-acrylamido-2-methyl-propane sulphonic acid. Wt. ratio acid monomer:polymer is 0.05:1 to 5:1.

IPC 1-7

E21B 33/13; C04B 24/16; C04B 24/00; C04B 24/26; C08F 283/00

IPC 8 full level

C04B 24/16 (2006.01); **C04B 24/24** (2006.01); **C04B 24/30** (2006.01); **C09K 8/46** (2006.01)

CPC (source: EP US)

C04B 24/16 (2013.01 - EP US); **C04B 24/243** (2013.01 - EP US); **C04B 24/30** (2013.01 - EP US); **C09K 8/46** (2013.01 - EP US)

Citation (search report)

- [DA] US 4941536 A 19900717 - BROTHERS LANCE E [US], et al
- [A] EP 0163459 A1 19851204 - HALLIBURTON CO [US]
- [A] EP 0078938 A1 19830518 - SUEDEDEUTSCHE KALKSTICKSTOFF [DE]

Cited by

JP2002520243A; CN111825806A; US6995105B1; WO0002827A3; EP0688744B1

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